

# INTERNATIONAL SEARCH REPORT

Int'l Application No  
PCT/GB2004/002994

**A. CLASSIFICATION OF SUBJECT MATTER**

IPC 7 A61K47/48

According to International Patent Classification (IPC) or to both national classification and IPC

**B. FIELDS SEARCHED**

Minimum documentation searched (classification system followed by classification symbols)

IPC 7 A61K

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal, BIOSIS, CHEM ABS Data

**C. DOCUMENTS CONSIDERED TO BE RELEVANT**

Category	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	<p>WILBUR D SCOTT ET AL: "Monoclonal antibody Fab' fragment cross-linking using equilibrium transfer alkylation reagents. A strategy for site-specific conjugation of diagnostic and therapeutic agents with F(ab')-2 fragments"          BIOCONJUGATE CHEMISTRY, vol. 5, no. 3, 1994, pages 220-235,          XP002313937          ISSN: 1043-1802          Fig. 1; Fig. 2, compounds 5a,b</p> <hr style="width: 10%; margin-left: auto; margin-right: 0;"/> <p style="text-align: center;">-/-</p>	1-14

Further documents are listed in the continuation of box C.

Patent family members are listed in annex.

\* Special categories of cited documents :

- \*A\* document defining the general state of the art which is not considered to be of particular relevance
- \*E\* earlier document but published on or after the international filing date
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- \*O\* document referring to an oral disclosure, use, exhibition or other means
- \*P\* document published prior to the international filing date but later than the priority date claimed

- \*T\* later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention
- \*X\* document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone
- \*Y\* document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art.
- \*&\* document member of the same patent family

Date of the actual completion of the international search

19 January 2005

Date of mailing of the international search report

31/01/2005

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## INTERNATIONAL SEARCH REPORT

Int'l Application No  
PCT/GB2004/002994

C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT		
Category	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
Y	ROBERTS M J ET AL: "Chemistry for peptide and protein PEGylation" ADVANCED DRUG DELIVERY REVIEWS, AMSTERDAM, NL, vol. 54, no. 4, 17 June 2002 (2002-06-17), pages 459-476, XP002293146 ISSN: 0169-409X Figures 1, 6, 14(2)	1-14
Y	DEL ROSARIO R B ET AL: "SULPHYDRYL SITE-SPECIFIC CROSS-LINKING AND LABELING OF MONOCLONAL ANTIBODIES BY A FLUORESCENT EQUILIBRIUM TRANSFER ALKYLATION CROSS-LINK REAGENT" BIOCONJUGATE CHEMISTRY, vol. 1, no. 1, 1990, pages 51-59, XP002313938 ISSN: 1043-1802 Fig.1; Scheme 1.	1-14
Y	LIBERATORE F A ET AL: "SITE-DIRECTED CHEMICAL MODIFICATION AND CROSS-LINKING OF A MONOCLONAL ANTIBODY USING EQUILIBRIUM TRANSFER ALKYLATING CROSS-LINK REAGENTS" BIOCONJUGATE CHEMISTRY, vol. 1, no. 1, 1990, pages 36-50, XP002313939 ISSN: 1043-1802 Scheme II, compounds 12-15; Scheme III.	1-14
Y	BROCCHINI ET AL.: "Molecular yardsticks. Synthesis of extended equilibrium transfer alkylating cross-link reagents and their use in the formation of macrocycles" JOURNAL OF THE AMERICAN CHEMICAL SOCIETY, vol. 110, 1988, pages 5211-5212, XP002313940 Scheme I; Scheme II, compounds 12-17 and 32.	1-14
A	WO 99/45964 A (SHEARWATER POLYMERS INC ; HARRIS J MILTON (US); KOZLOWSKI ANTONI (US)) 16 September 1999 (1999-09-16) Abstract; p. 1, l. 11-15; p. 3, l. 18-19; p. 5, l. 1; p. 12, l. 26-p. 13, l. 2; examples; claims 14-20	1-14
A	WO 01/05818 A (KUHNIL PHARM CO LTD ; CHOI JANG SIK (KR); YOON JONG BAE (KR); LEE HYUK) 25 January 2001 (2001-01-25) claim 1.	1-7, 13, 14
A	US 2002/103259 A1 (GREENWALD RICHARD B ET AL) 1 August 2002 (2002-08-01) compounds 26, 28, 29, 31, 38, 39.	1-6, 10-14
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**INTERNATIONAL SEARCH REPORT**In ial Application No  
PCT/GB2004/002994**C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT**

Category	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	US 5 786 387 A (ANDO TAKASHI ET AL) 28 July 1998 (1998-07-28) col. 1, l. 10-11; col. 2, l. 30-63; examples 1-6 ----- WO 99/55377 A (APPLIED RESEARCH SYSTEMS ; ROBERTS MICHAEL J (US); HARRIS MILTON (US);) 4 November 1999 (1999-11-04) Abstract; p. 18, l. 30-p. 19, l. 17. -----	1-6,13, 14  1-14

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